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Can

15 January 1948

Chief, FBIB  
Attention: Chief, Field Division

Chief Engineer, FBIB  
Comments re [ ] letter of 2 January 1948 on Okinawa versus  
Kauai monitoring.

[ ] analysis of reception on Okinawa is very good--  
as far as he has gone. Several essential factors are missing,  
however. They are: first, a qualified study of the "Log of  
Reception Ratings" taken during the reception survey on Okinawa,  
second, a qualified engineering interpretation of the overall  
reception problem, and third, an unprejudiced viewpoint to  
Pacific-wide monitoring.

Before these three factors are developed briefly, it is  
essential to state that I have a great deal of faith in  
[ ] ability to develop schedules and conduct cruises-  
ing operations. He is very good at this work--and he knows  
it. However, his judgement of overall receiving conditions  
and possibilities is very weak due to an almost complete lack  
of knowledge of the technical phases of the problem. [ ]  
actually has no one to advise him on these problems.

The three factors listed in the first paragraph will now  
be elaborated upon.

1. Qualified Study of Log of Reception Ratings

In any reception test it is difficult to set up  
test antennae which will give results equivalent to  
antennae which would be used in an actual monitoring  
station. Many short cuts and approximations must be  
taken. However, a qualified engineer knows how to  
compare results of a test antenna with results expected  
from a well designed operational antenna. Also, in a  
test, enough antennae cannot be set up to cover all  
stations which might be logged for reception results.  
In the Okinawa test, antennae were set up only on  
specific directions to determine primarily what reception  
would be like from areas from which reception was in  
doubt, quantitatively, to the test engineer.

No one can make an accurate and qualified conclusion  
using the test data directly. All test data must be  
correctly interpreted. Seldom is test data direct reading.  
Messrs. [ ] have based their conclusions  
on the test data alone and this is a fallacious base.

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